

## WHAT IS CLAIMED IS:

1. A brake cooling mechanism of a four-wheeled vehicle in which a rotation member of a drive power transmission system for rear wheels is provided with a  
5 brake device of the vehicle, comprising:

a belt cover having an air discharging hole, in which the belt cover covers an automatic V-belt transmission; and

an air discharging duct connected to the belt  
10 cover in a state in which the air discharging duct is communicated with the air discharging hole, and having an outlet part for discharging air,

wherein the air discharging duct extends up to a vicinity of the brake device so as to discharge air from  
15 the outlet part toward the brake device.

2. The brake cooling mechanism as claimed in claim 1, wherein the air discharging duct has a rising part which is higher than the outlet part of the air discharging duct.

3. The brake cooling mechanism as claimed in claim 1,  
20 wherein the brake device is a wet multiple-disk braking device.

4. The brake cooling mechanism as claimed in claim 1, wherein the drive power transmission system for rear wheels has a final reduction gear for the rear wheels,

25 wherein the brake device is a wet multiple-disk

braking device which is mounted in front of the final reduction gear,

wherein the wet multiple-disk braking device and the final reduction gear are housed inside a single casing,  
5 and

wherein the single casing has an oil sump under the wet multiple-disk braking device.

5. A brake cooling mechanism of a four-wheeled vehicle, comprising:

10 a casing for housing a final reduction gear for rear wheels and a wet multiple-disk braking device, of the vehicle, which is mounted in front of the final reduction gear; and

an oil sump which is provided in the casing under  
15 the wet multiple-disk braking device.

6. The brake cooling mechanism as claimed in claim 5, wherein a part, for housing the wet multiple-disk braking device, of the casing has a front surface which tilts with respect to a direction of a width of the four-wheeled  
20 vehicle.